

PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/936,885

DATE: 10/04/2001
TIME: 10:33:46

Input Set : A:\60993.app
Output Set: N:\CRF3\10042001\I936885.raw

3 <110> APPLICANT: Misra and Kay
 5 <120> TITLE OF INVENTION: Transgenic Plants that are Resistant to a Broad Spectrum
 6 of Pathogens
 8 <130> FILE REFERENCE: 60993
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/936,885
 C--> 11 <141> CURRENT FILING DATE: 2001-09-17
 13 <150> PRIOR APPLICATION NUMBER: 60/125,072
 14 <151> PRIOR FILING DATE: 1999-03-17
 16 <150> PRIOR APPLICATION NUMBER: PCT/CA00/00288
 17 <151> PRIOR FILING DATE: 2000-03-16
 20 <160> NUMBER OF SEQ ID NOS: 41
 22 <170> SOFTWARE: PatentIn Ver. 2.0
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 443
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Phylomedusa bicolor
 29 <220> FEATURE:
 30 <221> NAME/KEY: CDS
 31 <222> LOCATION: (58)..(294)
 33 <400> SEQUENCE: 1
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 36 atg gat atc ctg aag aaa tct ctt ttc ctt gta tta ttc ctt gga ttg 105
 37 Met Asp Ile Leu Lys Ser Leu Phe Leu Val Leu Phe Leu Gly Leu
 38 1 5 10 15
 40 gtt tcc ctt tcc atc tgt gaa gaa gag aaa aga gaa aat gaa gat gag 153
 41 Val Ser Leu Ser Ile Cys Glu Glu Lys Arg Glu Asn Glu Asp Glu
 42 20 25 30
 44 gag aaa caa gat gac gag caa agt gaa atg aag aga gct atg tgg aaa 201
 45 Glu Lys Gln Asp Asp Glu Gln Ser Glu Met Lys Arg Ala Met Trp Lys
 46 35 40 45
 48 gat gtg tta aaa aaa ata gga aca gtg gcc tta cat gca gga aaa gcg 249
 49 Asp Val Leu Lys Ile Gly Thr Val Ala Leu His Ala Gly Lys Ala
 50 50 55 60
 52 gct tta ggt gca gtt gct gat aca ata agt caa gga gag caa taa 294
 53 Ala Leu Gly Ala Val Ala Asp Thr Ile Ser Gln Gly Glu Gln
 54 65 70 75
 56 agtgaaaaaa atttaaaaatt gaattactct aaatagaaca attagcaata atttgtgtcaa 354
 58 acctacatta aagcatactg aaccaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 414
 60 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 443
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 64 <211> LENGTH: 78
 65 <212> TYPE: PRT
 66 <213> ORGANISM: Phylomedusa bicolor
 68 <400> SEQUENCE: 2
 69 Met Asp Ile Leu Lys Ser Leu Phe Leu Val Leu Phe Leu Gly Leu
 70 1 5 10 15
 72 Val Ser Leu Ser Ile Cys Glu Glu Lys Arg Glu Asn Glu Asp Glu

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73 20 25 30
 75 Glu Lys Gln Asp Asp Glu Gln Ser Glu Met Lys Arg Ala Met Trp Lys
 76 35 40 45
 78 Asp Val Leu Lys Lys Ile Gly Thr Val Ala Leu His Ala Gly Lys Ala
 79 50 55 60
 81 Ala Leu Gly Ala Val Ala Asp Thr Ile Ser Gln Gly Glu Gln
 82 65 70 75
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 86 <211> LENGTH: 27
 87 <212> TYPE: PRT
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 113 <212> TYPE: PRT
 114 <213> ORGANISM: Pachymedusa dacnicolor
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 120 Ser Lys Lys Ala Ala Gly Lys Ala Ala Leu Gly Ala Val Ser Glu Ala
 121 20 25 30
 123 Leu Gly Glu Gln
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 129 <212> TYPE: PRT
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 137 20 25 30
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 141 <211> LENGTH: 35
 142 <212> TYPE: PRT
 143 <213> ORGANISM: Agalychnis annae

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145 <400> SEQUENCE: 7
 146 Gly Met Trp Ser Thr Ile Arg Asn Val Gly Lys Ser Ala Ala Lys Ala
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 158 <212> TYPE: PRT
 159 <213> ORGANISM: Agalychnis annae
 161 <400> SEQUENCE: 8
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 191 Ala Gly Lys Ala Ala Leu Gly Ala Ala Ala Asp Thr Ile Ser Gln Gly
 192 20 25 30
 194 Thr Gln
 198 <210> SEQ ID NO: 11
 199 <211> LENGTH: 34
 200 <212> TYPE: PRT
 201 <213> ORGANISM: Phyllomedusa sauvagei
 203 <400> SEQUENCE: 11
 204 Ala Leu Trp Phe Thr Met Leu Lys Leu Gly Thr Met Ala Leu His
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 207 Ala Gly Lys Ala Ala Leu Gly Ala Ala Ala Asn Thr Ile Ser Gln Gly
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 210 Thr Gln
 214 <210> SEQ ID NO: 12
 215 <211> LENGTH: 30
 216 <212> TYPE: PRT
 217 <213> ORGANISM: Phyllomedusa sauvagei

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219 <400> SEQUENCE: 12
 220 Ala Leu Trp Lys Asn Met Leu Lys Gly Ile Gly Lys Leu Ala Gly Lys
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 224 20 25 30
 227 <210> SEQ ID NO: 13
 228 <211> LENGTH: 27
 229 <212> TYPE: PRT
 230 <213> ORGANISM: Phyllomedusa sauvagei
 232 <400> SEQUENCE: 13
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 234 1 5 10 15
 236 Ala Leu Asn Ala Val Leu Val Gly Ala Asn Ala
 237 20 25
 240 <210> SEQ ID NO: 14
 241 <211> LENGTH: 29
 242 <212> TYPE: PRT
 243 <213> ORGANISM: Phyllomedusa sauvagei
 245 <400> SEQUENCE: 14
 246 Gly Leu Trp Ser Lys Ile Lys Thr Ala Gly Lys Ser Val Ala Lys Ala
 247 1 5 10 15
 249 Ala Ala Lys Ala Ala Val Lys Ala Val Thr Asn Ala Val
 250 20 25
 253 <210> SEQ ID NO: 15
 254 <211> LENGTH: 329
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 256 <213> ORGANISM: Rana temporaria
 258 <220> FEATURE:
 259 <221> NAME/KEY: CDS
 260 <222> LOCATION: (53)..(238)
 262 <400> SEQUENCE: 15
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 264 Met Phe
 265 1
 267 acc ttg aag aaa tcc ctc tta ctc ctt ttc ctt ggg acc atc aac 106
 268 Thr Leu Lys Lys Ser Leu Leu Leu Phe Phe Leu Gly Thr Ile Asn
 269 5 10 15
 271 tta tct ctc tgt gag gaa gag aga gat gcc gat gaa gaa aga aga gat 154
 272 Leu Ser Leu Cys Glu Glu Arg Asp Ala Asp Glu Glu Arg Arg Asp
 273 20 25 30
 275 gat ctc gaa agg gat gtt gaa gtg gaa aag cga ttt ttt cca gtg 202
 276 Asp Leu Glu Glu Arg Asp Val Glu Val Glu Lys Arg Phe Phe Pro Val
 277 35 40 45 50
 279 att gga agg ata ctc aat ggt att ttg gga aaa taa ccaaaaaaag 248
 280 Ile Gly Arg Ile Leu Asn Gly Ile Leu Gly Lys
 281 55 60
 283 ttaaaaacttt ggaaatggaa ttggaaatca tctaattgtgg aatgtcattt agctaaatgc 308
 285 acatcaaatg tcttataaaa a 329
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291 <213> ORGANISM: Rana temporaria
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297 Ile Asn Leu Ser Leu Cys Glu Glu Glu Arg Asp Ala Asp Glu Glu Arg
298 20 25 30
300 Arg Asp Asp Leu Glu Glu Arg Asp Val Glu Val Glu Lys Arg Phe Phe
301 35 40 45
303 Pro Val Ile Gly Arg Ile Leu Asn Gly Ile Leu Gly Lys
304 50 55 60
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308 <211> LENGTH: 13
309 <212> TYPE: PRT
310 <213> ORGANISM: Rana temporaria
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314 1 5 10
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318 <211> LENGTH: 13
319 <212> TYPE: PRT
320 <213> ORGANISM: Rana temporaria
322 <400> SEQUENCE: 18
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327 <210> SEQ ID NO: 19
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329 <212> TYPE: PRT
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337 <210> SEQ ID NO: 20
338 <211> LENGTH: 13
339 <212> TYPE: PRT
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352 <400> SEQUENCE: 21
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354 1 5 10
357 <210> SEQ ID NO: 22
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VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date